SAN JOAQUIN RIVER CONSERVANCY

RIVER WEST FRESNO, EATON TRAIL EXTENSION PROJECT

CEQA MITIGATION MONITORING AND REPORTING PROGRAM

ALTERNATIVE 5B

NOVEMBER 15, 2017

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MITIGATION MONITORING AND REPORTING PROGRAM

CALIFORNIA ENVIRONMENTAL QUALITY ACT REQUIREMENT

Where a California Environmental Quality Act (CEQA) document has identified significant environmental effects, Public Resources Code Section 21081.6 requires adoption of a "reporting or monitoring program for the changes to the project which it has adopted or made a condition of a project approval to mitigate or avoid significant effects on the environment."

This Environmental Mitigation Monitoring and Reporting Program (MMRP) has been prepared to provide for the monitoring of mitigation measures required of the River West Fresno, Eaton Trail Extension Project (Alternative 5B), as set forth in the Final Environmental Impact Report (FEIR).

The San Joaquin River Conservancy (Conservancy) is the Lead Agency that must adopt the MMRP for development and operation of the project. This report will be kept on file with San Joaquin River Conservancy, 5469 E. Olive Avenue, Fresno, CA 93727.

The CEQA Statutes and Guidelines provide direction for clarifying and managing the complex relationships between a Lead Agency and other agencies with implementing and monitoring mitigation measures. In accordance with CEQA Guidelines Section 15097(d), "each agency has the discretion to choose its own approach to monitoring or reporting; and each agency has its own special expertise." This discretion will be exercised by implementing agencies at the time they undertake any of portion of the project, as identified in the FEIR.

PURPOSE OF MITIGATION MONITORING AND REPORTING PROGRAM

The intent of the MMRP is to ensure the effective implementation and enforcement of adopted mitigation measures. The MMRP is intended to be used by Conservancy staff and others responsible for project implementation.

This document identifies the individual mitigation measures, the party responsible for monitoring implementation of the measure, the timing of implementation, and space to confirm implementation of the mitigation measures.

ROLES AND RESPONSIBILITIES

The Conservancy will oversee monitoring and documenting the implementation of mitigation measures. The project applicant or its construction contractor is responsible for fully understanding and effectively implementing all of the mitigation measures contained within this MMRP. Certain mitigation measures also will require that the Conservancy coordinate or consult with one or more other public agencies in implementing mitigation measures specified herein.

CHANGES TO MITIGATION MEASURES

Any substantive change in the MMRP is required to be reported in writing. Modifications to the mitigation measures may be made by the Conservancy, subject to one of the following findings, and documented by evidence included in the public record:

- The mitigation measure included in the FEIR and the MMRP is no longer required because the significant environmental impact identified in the FEIR has been found not to exist, or to occur at a level which makes the impact less than significant as a result of changes in the project, changes in environment conditions, or other factors.

OR,

- The modified or substitute mitigation measure provides a level of environmental protection equal to, or greater than that afforded by the mitigation measure included in the FEIR and the MMRP; and,

- The modified or substitute mitigation measure or measures do not have significant adverse effects on the environment in addition to, or greater than those which were considered by the responsible hearing bodies in their decisions on the FEIR and the proposed project; and,

- The modified or substitute mitigation measures are feasible, and the Conservancy, through measures included in the MMRP or other City procedures, can ensure implementation.

SUPPORT DOCUMENTATION

Findings and related documentation supporting the findings involving modifications to mitigation measures shall be maintained in the project file with this MMRP and shall be made available to the public upon request.

This MMRP will be kept on file at:

San Joaquin River Conservancy
5469 E. Olive Avenue
Fresno, CA 93727.

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	**Timing/Schedule**	**Implementation Responsibility**	**Completion of Implementation**	
			Action	**Date Completed**
3.2. Aesthetics				
Mitigation Measure Aesthetics and Visual Resources-1 The Conservancy shall use native plants for landscaping portions of the trail extension to allow for naturalization of these features. Landscaping and recreation facilities shall be designed to create visual buffers and in a manner complementary and/or compatible with the scenic nature of the area. Newly landscaped vegetation shall be irrigated until permanently established. The Conservancy shall select materials and colors for all facilities (e.g., vault toilet restrooms) that shall be compatible with the surrounding natural environment.	Project design and construction	Conservancy		
Mitigation Measure Aesthetics and Visual Resources-2 The Conservancy shall implement Mitigation Measure Aesthetics and Visual Resources-1.	Project design and construction	Conservancy		
Mitigation Measure Aesthetics and Visual Resources-3 The Conservancy shall implement the following measures regarding lighting design features: • All outdoor lights shall be fully shielded with full cutoff luminaires. • All up-lighting for any purpose shall be avoided. • Tree-mounted lights shall be avoided unless they are fully shielded and pointing downward toward the ground or shining into dense foliage.	Project design and construction	Conservancy		
3.5 Biological Resources				
Mitigation Measure Biological Resources-1 (Special-Status Plant Species) Before any ground-disturbing activities, a qualified botanist shall conduct a botanical survey for California satintail and Sanford's arrowhead during their respective floristic periods (September to May and November to May). If it is determined that suitable habitat for special-status plants is present, the botanist shall conduct a focused survey for special-status plants during the appropriate time of the year to adequately identify special-status plants that could occur in the study area. The surveys will be performed according to the *Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities* (DFG 2009). Surveys shall be performed before the final alignment has been established to avoid special-status plants, and if the species are present before the start of	Prior to construction	Conservancy		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	**Timing/Schedule**	**Implementation Responsibility**	**Completion of Implementation**	
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construction as well. One or more of the following measures shall be implemented to avoid and/or minimize impacts on sensitive natural communities and special-status plants as appropriate, per the botanist's recommendation: • Flag or otherwise delineate in the field the special-status plant populations and/or sensitive natural communities to be protected. Clearly mark all such areas to be avoided on construction plans and designate these areas as "no construction" zones. • Allow adequate buffers around plants or habitat; show the location of the buffer zone on the maintenance design drawings. Mark this exclusion zone in the field with stakes and/or flagging so that it is visible to maintenance personnel, without causing excessive disturbance of the sensitive habitat or population itself (e.g., from installation of fencing). • Time construction or other activities during dormant and/or noncritical life cycle period. • Limit the operation of construction equipment to established roads wherever possible.				
Mitigation Measure Biological Resources-3 (American Badger) The Conservancy shall conduct a preconstruction survey no less than 14 days and no more than 30 days before the beginning of ground-disturbing activities. If active American badger den sites are present, the Conservancy shall consult with CDFW and implement the following measures: • The entrances to dens shall be blocked for 3–5 days to discourage use. • After the 3- to 5-day period, the dens shall be hand-excavated with a shovel to prevent reuse during construction. • No disturbance of active dens shall take place when cubs may be present and dependent on parent care.	Prior to Construction	Conservancy		
Mitigation Measure Biological Resources-4 (Avian Species) If project-related construction must occur during the	Prior to Construction	Conservancy		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
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breeding season (February through mid-September), the Conservancy shall have surveys performed for active nests no more than 30 days before commencing project-related activities. The surveys shall be conducted by a qualified biologist. A minimum no-disturbance buffer of 250 feet shall be delineated around active nests until the breeding season has ended, a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, or the biologist determines that the nest is no longer active. The results of the preconstruction survey and any subsequent monitoring shall be provided to CDFW.				
Mitigation Measure Biological Resources-5 (Bald Eagle) Before initiating ground-disturbing activities, the Conservancy shall have preconstruction surveys performed for bald eagle nesting habitat and roost sites and foraging areas along the River within 2 miles of the project. Surveys shall be conducted in accordance with the CDFW *Bald Eagle Breeding Survey Instructions* (DFG 2010) or current guidance. If an active eagle's nest is found within 0.5 mile of the project, construction shall not occur during the breeding season, typically January through July or August. If project-related construction must occur during the breeding season, the Conservancy shall have surveys performed for active nests no more than 30 days before commencing project-related activities. The surveys shall be conducted by a qualified biologist. A minimum no-disturbance buffer of 250 feet shall be delineated around active nests until the breeding season has ended, a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, or the biologist determines that the nest is no longer active. The results of the preconstruction survey and any subsequent monitoring shall be provided to CDFW.	Prior to Construction	Conservancy		
Mitigation Measure Biological Resources-6 (Burrowing Owl) The Conservancy shall implement the following measures before initiating ground-disturbing activities: • Focused surveys shall be conducted following the survey methodology developed by the California Department of Fish and Game (now CDFW) *Staff Report*	Prior to and ongoing during construction	Conservancy		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
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on Burrowing Owl Mitigation (DFG 2012). • If burrowing owls are found within the project footprint as a result of the required surveys, the recommendations of the *Staff Report on Burrowing Owl Mitigation* (DFG 2012) are mandatory; avoiding nesting sites must include implementation of no-disturbance buffer zones, unless a qualified biologist approved by CDFW verifies through noninvasive methods that either (1) the birds have not begun egg laying and incubation, or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. • If burrowing owls must be removed, passive relocation is required during the nonbreeding season. A burrowing owl relocation plan to be approved by CDFW shall be developed and implemented, including passive measures such as installing one-way doors in active burrows for up to 4 days, carefully excavating all active burrows after 4 days to ensure that no owls remain underground, and filling all burrows in the construction area to prevent owls from using them. Replacement of burrows with artificial burrows at a ratio of one burrow collapsed to one artificial burrow constructed (1:1) is required.				
Mitigation Measure Biological Resources-7 (Swainson's Hawk) The Conservancy shall implement the following measure before construction starts: • To avoid impacts on Swainson's hawks, no construction project shall occur between March 1 and August 31 unless a qualified biologist has performed nesting surveys following the survey methodology developed by the Swainson's Hawk Technical Advisory Committee (DFG 2000) before the start of project activities. Additional pre-project surveys for active nests within a 0.5-mile radius of the project site shall be conducted by a qualified biologist no more than 10 days before the	Prior to Construction	Conservancy		

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start of project activities and during the appropriate time of day to maximize detectability. A minimum no-disturbance buffer of 0.5 mile shall be delineated around active nests until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival.				
Mitigation Measure Biological Resources-8 (Raptors/Migratory Birds) If construction begins between February 1 and August 31, the Conservancy shall conduct surveys for nesting raptors and migratory birds within 1,000 feet of the trail extension, parking lot, and other construction areas. If active nests are found, a buffer of 250 feet shall be established. A smaller buffer area may be sufficient if, in consultation with CDFW, it is determined sufficient to avoid impacts. Buffers shall be maintained until the young have fledged or the nests become inactive.	Prior to Construction	Conservancy		
Mitigation Measure Biological Resources-9 (Silvery Legless Lizard) The Conservancy shall perform a survey for legless lizard presence and shall evaluate and map specific habitat areas within the riparian habitat along the unimproved hiking paths before construction. The survey shall use standard coverboard techniques for herpetofauna. If silvery legless lizard or specific habitat areas are found, the area shall be avoided.	Prior to Construction	Conservancy		
Mitigation Measure Biological Resources-10 (Wildlife Movement) The Conservancy shall implement the following measures: • The multiuse trail shall be located outside the riparian corridor in conformance to the buffers established in the Parkway Master Plan. • All ground-disturbing work, including construction and routine maintenance, and routine recreational operating hours shall occur during daylight hours. • At a minimum, dogs shall be required to be leashed at all times.	Project design and construction	Conservancy		
Mitigation Measure Alternative 5B-Biological Resources-1 All mature sycamore trees to be removed during	Project design and construction	Conservancy		

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construction of Alternative 5B shall be replaced at a ratio of 5 western Sycamore trees planted for every tree removed, or as otherwise required by the California Department of Fish and Wildlife (CDFW). The replacement trees shall be a minimum of 10 gallons in size and shall be planted within the project site. Irrigation shall be provided for to achieve the survival rate required by CDFW.				
3.6 Cultural Resources				
Mitigation Measure Cultural Resources-1 The Conservancy shall perform Extended Phase I subsurface testing along the alignment of the trail extension to determine the boundary of site CA-FRE-980 and identify the presence of additional archaeological deposits. The testing shall be performed before the start of any construction. The Conservancy shall ensure that all cultural resources identified shall be evaluated for eligibility for inclusion in the CRHR. All additional testing shall be performed by individuals who meet the United States Secretary of the Interior's professional standards in archaeological history. If archaeological resources are determined to be eligible for the CRHR, and if the impacts of project construction and visitor use of the alignment render these resources as ineligible for the CRHR, the alignment shall be moved a minimum of 100 feet.	Prior to Construction	Conservancy		
Mitigation Measure Cultural Resources-2 After completing the cultural resources investigations as described in Mitigation Measure Cultural Resources-1, and prior to commencing grading, earth work, or other disturbance of native soil, the Conservancy shall retain and enter into a service contract with a qualified professional for monitoring. The cultural resources monitor shall provide monitoring for all initial ground disturbing activities and earth disturbance on portions of the project site that have not been mined for gravel, including clearing, grubbing, tree removal, grading, trenching, stockpiling materials, rock crushing, etc. The monitor shall have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources. The Conservancy shall provide an opportunity for an appropriate tribal monitor to also enter a service agreement to be on-site during these activities to supplement the project monitor's services for advisory purposes and to serve the tribe's interests.	Prior to and ongoing during construction	Conservancy and Contractor		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	Timing/Schedule	Implementation Responsibility	Completion of Implementation	
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Mitigation Measure Cultural Resources-3 If human remains or bones of unknown origin are found during any future project construction, all work shall stop in the vicinity of the find and the County Coroner shall be contacted immediately. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission. The Native American Heritage Commission shall notify the person considered to be the most likely descendant. The most likely descendant shall work with the Conservancy to develop a program for the reinternment of the human remains and any associated artifacts. No additional work shall take place within the immediate vicinity of the find until the identified appropriate actions have been completed.	Ongoing during construction	Conservancy and Contractor		
3.7 Geology and Soils				
Mitigation Measure Geology and Soils-1 The Conservancy shall implement the following measures: • Grading plans and design shall be signed by a professional engineer and submitted for approval within a reasonable time frame before the start of construction. • Construction slopes and grading shall be designed to limit the potential for slope instability and minimize the potential for erosion during and after construction. • In developing grading and construction procedures, the stability of both temporary and permanent cut, fill, and otherwise affected slopes shall be analyzed and properly addressed. • Development of the project site shall comply with the then-most-recent California Building Standards Code design standards and performance thresholds for construction on steep slopes to avoid or minimize potential damage from erosion. • Where soft or loose soils are encountered during investigations, design, or project construction, appropriate measures shall be implemented to avoid, accommodate, replace, or improve such soils. Depending on site-specific conditions and permit requirements, these measures may include:	Project design and construction	Conservancy and Contractor		

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• locating construction facilities and operations away from areas of soft and loose soil; • over excavating soft or loose soils and replacing them with engineered backfill materials; • increasing the density and strength of soft or loose soils through mechanical vibration and/or compaction; • installing material over construction access roads such as aggregate rock, steel plates, or timber mats; and • treating soft or loose soils in place with binding or cementing agents. • At the beginning of each construction day, the proposed staircase and trail along the bluff slope shall be evaluated for slope stability by qualified construction staff. • Fiber rolls shall be placed along the perimeter of the site to prevent sediment and construction-related debris and sediment from leaving the site. • Silt fences shall be placed downgradient of disturbed areas to slow runoff and sediment. • During construction, slopes affected by construction activities shall be monitored by qualified construction staff and maintained in a stable condition. • Construction activities likely to result in slope instability shall be stabilized and suspended, as necessary, during and immediately after periods of heavy precipitation when unstable slopes are more susceptible to failure.				
Mitigation Measure Alt 5B-Geology-1 The Conservancy shall work with the City of Fresno to obtain a variance from the requirements of the Bluff Overlay District to permit construction of the access road and staircase down the slope of the bluff. The variance must be approved by the City of Fresno prior to construction along the slope of the bluff.	Prior to Construction	Conservancy		
3.9 Hazards and Hazardous Materials				
Mitigation Measure Hazards and Hazardous Materials-1	Project design and ongoing	Conservancy		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	Timing/Schedule	Implementation Responsibility	Completion of Implementation	
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Safe access for emergency and wildland fire suppression equipment and civilian evacuation shall be provided at three entrance points and throughout the site on the paved trail system. Response agency–approved emergency responder access locks shall be maintained on all gates.	through life of project			
Mitigation Measure Hazards and Hazardous Materials-2 Signs shall be posted that clearly indicate entrances and egresses for the multiuse trail (e.g., Perrin Avenue entrance, West Riverview Drive entrance), to minimize delay in response times to any wildfires that may occur.	Project design and ongoing through life of project	Conservancy		
Mitigation Measure Hazards and Hazardous Materials-3 Any internal combustion engine that uses hydrocarbon fuels shall not be used on any grass- or brush-covered lands unless the engine is equipped with a spark arrester. All vehicles and construction equipment shall be equipped with an improved muffler.	During construction and ongoing through life of project	Conservancy		
Mitigation Measure Hazards and Hazardous Materials-4 Signage containing the following or equally effective language shall be placed at all trail access points: Wildland fires destroy habitat and can threaten lives and structures—be fire safe! The following prohibitions apply throughout the trail area: (a) No open fires, campfires, or fireworks. (b) No burning of any trash, vegetation, brush, stumps, logs, fallen timber, or any other flammable material. (c) Portable barbecues or grills may not be used. (d) No smoking.	Project design and ongoing through life of project	Conservancy		
Mitigation Measure Hazards and Hazardous Materials-5 The Conservancy shall maintain a fire-defensible firebreak or comply with the standards in the City of Fresno's weed abatement/fire prevention ordinance by annually disking or mowing at the site. The shoulders of developed trails shall also be mowed or disked no less often than annually. Ladder fuels and fuel loads shall be evaluated periodically and management measures such as trimming and fuel reduction activities shall be implemented in public use areas.	Ongoing through life of project	Conservancy		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	Timing/Schedule	Implementation Responsibility	Completion of Implementation	
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Mitigation Measure Hazards and Hazardous Materials-6 Before the start of construction, a fire prevention plan for construction activities shall be prepared and implemented in coordination with the appropriate emergency service and/or fire suppression agencies of the applicable local or State jurisdictions. The plan shall describe fire prevention and response methods, including fire precaution, requirements for spark arrestors on equipment, and suppression measures that are consistent with the policies and standards of the affected jurisdictions. If heavy equipment is used for construction during the dry season, a water truck shall be maintained on the construction site. Materials and equipment required to implement the fire prevention plan shall be available on-site. Before construction begins, all construction personnel shall be trained in fire safety and informed of the contents of the fire prevention plan.	During construction	Conservancy and Contractor		
Mitigation Measure Alt. 5B–Hazards and Hazardous Materials-1 Consistent with State of California procedures and in conjunction with the Conservancy's real property acquisition process, the Conservancy will obtain: 1.0 A Phase II Environmental Site Assessment prepared by a licensed environmental professional and performed to ASTM standards (ASTM E1903-11) at the locations of the proposed paved pedestrian/bicycle path (adjacent to the existing access road) and new parking area and associated facilities (at the base of the existing access road). Testing shall include sampling of soil and groundwater for constituents of concern such as volatile organic compounds, along with vapor monitoring for ambient air emissions of constituents such as methane. Laboratory results shall be presented and summarized in a report, which shall be submitted to the County of Fresno Department of Public Health. The report shall recommend specific additional site investigation needs if appropriate, remedial activities to clean up the property, and any project design features that are necessary to assure human and environmental health and safety with the implementation of Alternative 5B; 2.0 Any further site investigations recommended as part of the Phase II Environmental Site Assessment; and 3.0 A post closure land use plan prepared in compliance with 27 CCR Sections 20950–21420. As required by Section 21190, the post closure land use shall be designed and maintained to: • protect public health and safety and prevent damage to structures, roads, utilities, and gas monitoring and control	Before acquisition of land by Conservancy, during project design, during construction.	Conservancy and relevant land owners		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	Timing/Schedule	Implementation Responsibility	Completion of Implementation	
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systems; • prevent public contact with waste, landfill gas, and leachate; and • prevent landfill gas explosions The land use plan would be submitted to the County of Fresno Department of Public Health and the Central Valley RWQCB for review and approval. Upon approval, the plan shall be implemented before the Conservancy acquires the land for the Parkway project. After real property acquisition, and in conjunction with final design of Alternative 5, the Conservancy will develop the design to avoid or minimize locating the planned pedestrian/bicycle path, proposed parking lot, and amenities on the landfill material and will ensure consistency with the approved post closure land use plan.				
Mitigation Measure Alt. 5B–Hazards and Hazardous Materials-2 A worker health and safety plan shall be prepared before the start of construction activities within the Alternative 5B project site. The plan shall identify, at a minimum: • the potential types of contaminants that could be encountered during construction activity; • all appropriate equipment and procedures to be used during project activities to protect workers, public health, and the environment; • emergency response procedures; • the most direct route to the nearest hospitals; and • an on-site safety officer. The plan shall describe actions to be taken should hazardous materials be encountered during construction, including protocols for handling hazardous materials and preventing their spread, and procedures for notifying local and/or State regulatory agencies in case of an emergency. The plan shall specify that if evidence of hazardous materials contamination is observed or suspected during site preparation or construction through either obvious or implied measures (i.e., stained or odorous soil or groundwater), construction activities shall immediately cease in the area of the find. A qualified hazardous materials specialist shall assess the site and collect and analyze soil and/or groundwater samples, if needed. If the samples identify contaminants, the Conservancy shall employ measures in accordance with federal and State regulations, or shall coordinate with the landowner or other responsible party to employ such measures, before construction activities can resume at the site.	During construction	Conservancy and contractor		
3.10 Hydrology and Water Quality				
Mitigation Measure Hydrology and Water Quality-1	During	Conservancy		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	Timing/Schedule	Implementation Responsibility	Completion of Implementation	
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Construction staging areas, including hazardous-material storage areas and temporary stockpiles, shall be located outside the 100-year floodplain and designated floodway and away from drainages. Appropriate BMPs shall be implemented to ensure that runoff from these areas does not directly flow to surface waters. Before construction begins, locations for storage of hazardous materials, temporary stockpiles, and demolition debris piles within staging areas shall be designated outside the 100-year floodplain and designated floodway and away from drainages. Major storage and stockpile areas shall be designated in the SWPPP, as required for NPDES General Permit coverage for construction. Stockpile areas shall be identified in the SWPPP and appropriate BMPs shall be installed accordingly. The mitigation shall be implemented before any ground disturbance and shall continue throughout construction, as conditions require.	construction	and Contractor		
Mitigation Measure Hydrology and Water Quality-2 The project design shall include structural BMPs for project operation to reduce and treat post-construction stormwater runoff from the proposed parking lot and other impervious features. The runoff shall be treated through the use of detention basins or other means before it reaches on-site surface waters, wetlands, and the River. The selected BMPs shall minimize the velocity of stormwater flows and disperse the flows to the extent practicable. The selected BMPs also shall serve to infiltrate, filter, store, evaporate, and detain runoff close to its source, and shall enhance on-site recharge of groundwater. The structural BMPs shall be designed in accordance with applicable local and State regulations. BMPs such as bioswales, surface sand, other media filters, vegetated filter strips, and detention basins may be implemented to treat, detain, and percolate stormwater runoff. The mitigation shall be implemented before project designs are finalized.	Project design and construction	Conservancy and Contractor		
Mitigation Measure Hydrology and Water Quality-3 The proposed equestrian trails shall be sited, graded, and constructed consistent with Policy RDP11 of the Parkway Master Plan. The equestrian trail and staging area shall drain to detention swales, with no direct discharges to on-site waters or the River. Signage shall be posted, animal waste containers shall be provided, animal waste removal procedures shall be implemented, and the site shall be inspected periodically to determine the effectiveness of the measures. Vault toilets shall be cleaned daily and waste periodically trucked off-site for treatment.	Project Design and ongoing during life of the project	Conservancy		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	Timing/Schedule	Implementation Responsibility	Completion of Implementation	
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Mitigation Measure Hydrology and Water Quality-4 For improvements that require an encroachment permit and approval from the CVFPB, drainage and hydromodification studies shall be performed to evaluate and avoid modifications that would increase flooding in upstream or downstream areas, or that would cause obstructions during flood events. A professional civil engineer shall: • conduct a drainage and hydromodification study evaluating the location of all existing and proposed drainage features; • perform stormwater calculations for surface drainage flows occurring before and after project construction; • evaluate the potential for drainage and floodplain modifications to increase erosion on adjacent properties; and • determine the base flood elevation before and after construction, so that no net displacement of floodwaters shall occur. As necessary, the filling of floodplain or floodway areas below the base flood elevation shall be compensated for and balanced by excavation of a hydraulically equivalent area, taken from below the base flood elevation, to achieve no net increase in the base flood elevation greater than 0.10 foot, as measured at the property lines of the parcels being developed. The Conservancy shall perform hydraulic studies in accordance with applicable floodplain management regulations, prepare an encroachment permit application, and obtain an encroachment permit before construction begins.	Project design and construction	Conservancy		
Mitigation Measure Hydrology and Water Quality-5 Mitigation Measure Hydrology and Water Quality-2 shall be implemented as described above, to prevent and reduce potential alterations to drainage patterns that can result in erosion or siltation.	Project design and construction	Conservancy		
Mitigation Measure Hydrology and Water Quality-6 Mitigation Measures Hydrology and Water Quality-2, Hydrology and Water Quality-4, and Hydrology and Water Quality-5 shall be implemented as described above.	Project design and construction	Conservancy		
Mitigation Measure Hydrology and Water Quality-7 Mitigation Measures Hydrology and Water Quality-1, Hydrology and Water Quality-2, and Hydrology and Water Quality-3 shall be implemented to reduce pollutants in runoff from project construction and post-construction activities.	Project design and construction	Conservancy and Contractor		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
Mitigation Measure	**Timing/Schedule**	**Implementation Responsibility**	**Completion of Implementation**	
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Mitigation Measure Hydrology and Water Quality-8 Mitigation Measures Hydrology and Water Quality-1, Hydrology and Water Quality-2, and Hydrology and Water Quality-3 shall be implemented to reduce project-related degradation of water quality.	Project design and construction	Conservancy and Contractor		
Mitigation Measure Hydrology and Water Quality-9 Mitigation Measure Hydrology and Water Quality-4 shall be implemented to reduce potential impacts from flood hazards.	Project design and construction	Conservancy		
Mitigation Measure Alt. 5B–Hydrology and Water Quality-1 Before any surface-disturbing construction begins, the Conservancy shall implement Mitigation Measure Alt. 5–Hazards and Hazardous Materials-1, requiring completion of a subsurface assessment, avoidance, and post closure plan (if required) for land within and adjacent to the alignment of the access road, multiuse trail, and parking lot, to determine the presence of contaminants of concern. The assessment shall be completed along the face of the slope adjacent to the trail and access road alignment. If contaminants of concern are present, the area shall be remediated as recommended in the assessment and as required by regulatory agencies. In addition, the Conservancy shall implement Mitigation Measure Alt. 5–Hazards and Hazardous Materials-2, requiring preparation of a worker health and safety plan.	Project design and construction	Conservancy and Contractor		
Mitigation Measure Alternative 5B-Land Use-1 In accordance with Mitigation Measure Alternative 5B-Land Use 1, the Conservancy shall work with the City of Fresno to obtain a variance from the requirements of the Bluff Overlay District to permit construction of the access road and staircase down the slope of the bluff. The variance must be approved by the City of Fresno prior to construction along the slope of the bluff.	Project design	Conservancy		
3.13 Noise				
Mitigation Measure Noise-1 The plans, specifications, and bid documents for each construction project shall include noise control measures to reduce noise impacts to the extent feasible. The measures shall include the following: • The project shall be designed to meet the City of Fresno's standards for nonscheduled, intermittent, short-term operations of mobile	During Construction	Conservancy and Contractor		

Mitigation Monitoring and Reporting Program for the River West Fresno, Eaton Trail Extension Project (Alternative 5B)				
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construction equipment (e.g., backhoes, bulldozers, motor graders, and scrapers), and the noise standards for repetitively scheduled and relatively long-term construction operation of stationary equipment (e.g., compressors and generators). • Muffled construction equipment shall be used whenever possible. • Impact noise associated with construction shall be minimized by using noise control techniques, procedures, and acoustically treated equipment. For example, when practical, bins used to transport excavated material, including rocks and debris, could be constructed of nonmetallic liner to reduce impact noise; similarly, dump trucks could have resilient bed liners installed to minimize impact noise. • Construction hours shall be restricted to meet City of Fresno standards, which restrict hours of construction to between 7 a.m. and 9 p.m., Monday through Saturday, and prohibit activity on Sundays and federal holidays.				